

SCDXC Newsletter



The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

www.dx-code.org

The SCDXC newsletter is published monthly and released to club members around the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles will be republished with recognition of the author and the club. Re-use of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the Editor, Bill, N6RV at:

n6rv@scdxc.org

Club meetings are held on the second Thursday of the month at 7:00 PM except April, June, and December.

Please check the club web site for events and details at:

<http://www.scdxc.org>

If you are in the area please say hello on our repeater:

W6AM/R 145.48, (-) PL 100.0

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*If you need him
get in there and*



Announcements

N6PEQ, Dan Dankert #1 Honor Roll!



Dan has been an avid DXer for decades and, like many of us lonely souls waiting for that last entity to arrive, he was stunned and amazed when his quest was completed and he bagged that illusive QSO! Congratulations Dan! You are among a select few in the club who have them all! Enjoy your day in the sun ... then get to work on how we can create more new entities! A few revolutions are in order as well as figuring out how to increase volcanic activity which will produce more islands in the Pacific!



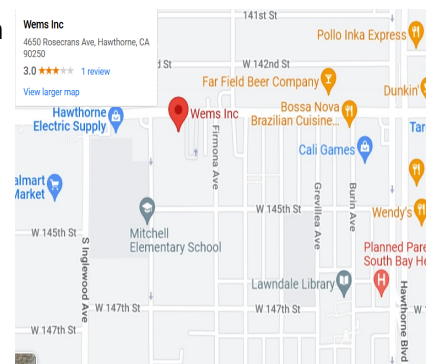
May Club Meeting is Live!

**May 11th 7PM at WEMS
Come Join Us!**



Tom Fagan K7DF

Our May 11th our presenter will be Tom Fagan K7DF. Tom will discuss Lightning / Grounding techniques. Tom K7DF has been an Electrical Engineer since 1985. He majored in RF, Antennas and microwave engineering and specialized in Radars, Electromagnetic Interference (EMI) and Spectrum Management. He has been a IEEE EMC Society member since 1986 and senior member since 2000. Tom is iNarte Certified: EMC Senior Engineer, Master EMC Design Engineer, ESD Engineer and Spectrum Manager. Tom was first licensed as WB7NXH in 1976. He became ARRL Technical specialist in 1985. ARRL Arizona Section Manager (2005-2013), Arizona Assistant Section Manager since 2013 and QCWA Arizona president (2014-2019).



The May meeting will be live and on Zoom. You can participate at the link below:

[SCDXC Club Meeting](#)

2023 Board of Directors

President

John Schroeder, N6QQ

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From the Desk of the President John Schroeder, N6QQ

Congratulations to Dick Stepanian, W6TK, our 2022 DXer of the Year. Dick is a superb operator and a real gentleman. He and his wife, Liz, with help from other central coast hams, have hosted the Summer Bash in Nipomo for several years. He has travelled and operated from semi-rare locales including Uganda where he helped set up a station for his son's family. He is active everyday on DXChat and chasing the elusive ones with the rest of the us. If someone needs help, Dick is there. No one deserves this award more!

Congratulations the Kevin NGO, K6NGO, our newest member and Clipperton Award winner. We expect great things from him. We will help him anyway we can!

Visalia DX Convention

Three years have gone by and we felt it. Around 486 hams were in attendance and everyone of them had a great time. It was the friendliest gathering ever at Visalia. Everyone was glad to see each other even the ones they didn't know. It was great to visit with our long time friends. There were lots of raffle prizes and the 28,000 tickets sold out by Friday leaving the Saturday attendees moaning. Who would know there would be that big a demand! The outstanding pile of radios given away were just too tempting!

Thirty five hams had their cards checked and we turned away a few who didn't have their paperwork. That too was a larger turn out than years past!

The Saturday night talk on the 3YØJ Bouvet DXpedition was very well executed. To show how difficult this DXpedition several of the operators had to SWIM over 150 feet to get ashore. At times waves were over 20 feet high! Here is a good video of the DXpedition.

3Y0J

All in all a great time was had by everyone. If you weren't there you missed a good one. Plan for next year!

Hope to see you at our May meeting.

73 de John, N6QQ
President, SCDXC
N6QQ@scdxc.org

May Calendar

May 6 ARI DX Contest
May 11 Meeting WEMS!!!
May 13 CQ-M International DX Contest
May 20 UN DX Contest
May 22 His Majesty King of Spain Contest CW
May 27 CQ WPX CW

For more contest Info see:

<http://www.hornucopia.com/contestcal/contestcal.html>

VP Corner May 2023

Howard Elovitz, W6FL

Visalia

The Visalia convention had great participation from both domestic and International hams. During the convention I have confirmed several speakers for our upcoming meeting including SteppIR, Elecraft, and Flex.

Presentation



Tom Fagan K7DF

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Board of Directors

If you have been thinking of volunteering, we can use new members on the board to take an active role in helping the club grow.

Till next month Best of DX.

73 and Good DXing!

Howard W6FL



Who is this high octane octogenarian working on his antenna?

***Every DXpedition is the WORST EVER....
UNTIL IT'S IN YOUR LOG***

Rumors on the Band

As we write this column a G4 storm hit earth. The bands have been dead all day and will not recover fully for a few more. Fortunately the rare ones have been on for a few weeks and nothing is scheduled until May. May does have some interesting tidbits. Not many but the ones that are going out are noteworthy.

QTH	Call	Start Date	End Date	Information
Maldives	8Q7KB	Now	7-May	DK2SBY 80-6m CW SSB RTTY FT4 FT8
Niger	5UA99WS	1-May	15-Jun	IU5HWS 40-10m FT8 SSB
San Andreas	HK0	4-May	11-May	HK0/PY8WW, HK0/PY7XC and HK0/PY7RP likewise 40-6m SSB CW FT8
Rwanda	9X2AW	5-May	15-May	DF2WO 80-6m
Market Reef	OJ0/LB5SH	20-May	27-May	80-6m SSB CW FT4 FT8
Maldives	8Q7VJ	20-May	7-Jun	HB9VCJ 40-6m SSB
Faroe Islands	OY/DC8TM	25-Jun	5-Jul	Also OY/DF3TS 80-10m SSB FT8

- ClubLog Top 50 Most Wanted Entities
- 1 P5 DPRK (NORTH KOREA)
 - 2 3Y/B BOUVET ISLAND
 - 3 FT5/W CROZET ISLAND
 - 4 BS7H SCARBOROUGH REEF
 - 5 CE0X SAN FELIX ISLANDS
 - 6 BV9P PRATAS ISLAND
 - 7 KH7K KURE ISLAND
 - 8 KH3 JOHNSTON ISLAND
 - 9 3Y/P PETER 1 ISLAND
 - 10 FT/G GLORIOSO ISLAND
 - 11 FT5/X KERGUELEN ISLAND
 - 12 YV0 AVES ISLAND
 - 13 VK0M MACQUARIE ISLAND
 - 14 ZS8 PRINCE EDWARD & MARION ISLANDS
 - 15 KH4 MIDWAY ISLAND
 - 16 PY0S SAINT PETER AND PAUL ROCKS
 - 17 PY0T TRINDADE & MARTIM VAZ ISLANDS
 - 18 KP5 DESECHEO ISLAND
 - 19 VP8S SOUTH SANDWICH ISLANDS
 - 20 KH5 PALMYRA & JARVIS ISLANDS
 - 21 ZL9 NEW ZEALAND SUBANTARCTIC ISLANDS
 - 22 FK/C CHESTERFIELD IS.
 - 23 EZ TURKMENISTAN
 - 24 VK0H HEARD ISLAND
 - 25 YK SYRIA
 - 26 FT/T TROMELIN ISLAND
 - 27 ZL8 KERMADEC ISLAND
 - 28 JD/M MINAMI TORISHIMA
 - 29 KH8/S SWAINS ISLAND
 - 30 KH1 BAKER HOWLAND ISLANDS
 - 31 XF4 REVILLAGIGEDO
 - 32 VP8G SOUTH GEORGIA ISLAND
 - 33 KH9 WAKE ISLAND
 - 34 SV/A MOUNT ATHOS
 - 35 T33 BANABA ISLAND
 - 36 VK9M MELLISH REEF
 - 37 VK9W WILLIS ISLAND
 - 38 T31 CENTRAL KIRIBATI
 - 39 FO/C CLIPPERTON ISLAND
 - 40 FT/J JUAN DE NOVA, EUROPA
 - 41 TI9 COCOS ISLAND
 - 42 HK0/M MALPELO ISLAND
 - 43 KP1 NAVASSA ISLAND
 - 44 ZD9 TRISTAN DA CUNHA & GOUGH ISLANDS
 - 45 FT5Z AMSTERDAM & ST PAUL ISLANDS
 - 46 H40 TEMOTU PROVINCE
 - 47 70 YEMEN
 - 48 VP80 SOUTH ORKNEY ISLANDS
 - 49 XZ MYANMAR
 - 50 CY0 SABLE ISLAND

CADXA Most Wanted DXCC Entities

ClubLog Most Wanted DXCC Ranking



DX Standings

Thanks to N6PEQ, N6PM N6RV, and N6WS for their updates. Also, some of the front-runners were updated using ClubLog.

Greg, N6PM, noted that there are only 11 bands from 160-10 meters. I think I found a mysterious missing band when I counted the 12 band WAZ standing. Could it have been the old 11 meter band which was ours for a while? We do not know and, since this column started about 12 years ago, we cannot recall. So the standing has now been reduced to 11 bands. If you do have 11 meter zones (ham only, not CB) we would be interested in that count as well!

Send any updates to:

N6RV@SCDXC.org

SCDXC WAZ and DXCC Standings

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M	Mixed
P	Phone
C	CW
R	RTTY

SCDXC Lifetime Standings										WAZ Standings				
Rank	Call	Total	Current	Slots	Rank	Call	Total	Current	Slots	Rank	Call	11B	5B	Awards
1	W6KH	389	340		45	N6AX	336	330	1198	1	N0FW	424	200	M/P/C/R/5
2	JA1BK	383	340	3147	46	AA6PW	330	330	1766	2	K6ND	415	200	M/5
3	OH2BH	378	340		47	K4SX	333	329	1737	3	WA5VGI	415	200	M/P/C/R/5
4	K6YRA	378	340	2777	48	K7MY	322	320	1281	4	N6WS	411	200	M/P/C/R/5
5	N0FW	372	340	2978	49	W6HB	311	311	1029	5	W6SR	384	200	M/P/C/5
6	K6YUI	366	340	2598	50	N6DHZ	316	310	1421	6	SM5GMZ	372	200	M/P/C/5
7	NS6C	361	340	2592	51	NK6A	316	310	957	7	W8DX	357	200	M/5
8	W6SR	359	340	2799	52	N6VNI	312	310	1514	8	N6AW	355	200	M/P/C/5
9	K6FG	357	340	2774	53	N6WT	304	304	1879	9	K6YUI	353	200	M/P/C/R/5
10	K5KT	355	340		54	N6GP	314	292	1583	10	W6RW	344	200	M/P/C/5
11	K6GXO	355	340	2633	55	K6IRD	298	292	649	11	K6YRA	337	200	P/5
12	W8DX	353	340	2449	56	W6ZL	291	287	1074	12	W6VX	352	199	M/P/C
13	W6TK	351	340	1781	57	W6PM	280	280	1861	13	W6TK	369	198	
14	N6HC	349	340	2388	58	WA6WXD	274	274		14	K6GXO	358	198	M
15	W6KK	349	340	1921	59	N6AA	247	247		15	N6HY	365	196	M/P/C
16	K6ND	348	340	2790	60	KQ6K	243	243		16	N6WT	383	195	
17	WA5VGI	348	340	2772	61	K6JEY	234	234		17	N6RV	380	195	
18	KJ6Y	348	340	1312	62	N6HE	238	229	746	18	K6RO	377	195	M/P/C
19	N6PEQ	347	340	2032	63	N6VOH	243	222		19	AI6Z	321	194	
20	WA6WZO	357	339		64	NE6V	237	213	917	20	NS6C	368	193	M/P/C/R/5
21	N6RV	356	339	2418	65	K6AFW	204	204	917	21	N6PM	372	192	
22	N6WS	351	339	2608	66	W6KC	203	202	743	22	KR6C	342	192	
23	W6VX	349	339	2772	67	WB6DJI	200	200	589	23	N6QQ	343	189	
24	KR6C	345	339	2135	68	N6LL	169	169		24	W6DR	348	187	
25	W6TJI	355	338		69	W6GA	168	169		25	K4ST	310	185	
26	N6QQ	355	338	2315	70	KC6TOD	166	166		26	N6GP	308	185	
27	W6IRD	354	338		71	KF6I	166	166	200	27	W6OU	304	184	
28	W6RW	352	338	2197	72	KK6M	162	162		28	AA6PW	298	181	
29	W6FL	352	338	1527	73	K7LA	160	160	466	29	N6VNI	291	181	
30	K6RO	346	338	2256	74	K6FOD	154	154		30	K6SY	299	178	
31	N6MG	338	338		75	W6QE	149	149	365	31	KJ6Y	237	173	
32	W6OU	356	337	1599	76	AB9A	141	141	224	32	N6DHZ	326	169	
33	N6HY	344	337	2424	77	WC2S	139	139		33	N6HE	253	168	
34	N6IC	347	336		78	K9TAD	134	134		34	W6ZL	242	166	M/P/C/R
35	SM5GMZ	346	335	2454	79	N6CA	133	133	386	35	K6JW	244	158	
36	AI6Z	342	335	2174	80	K6DW	129	129	302	36	NK6A	290	157	
37	K4ST	339	335	2051	81	NZ6L	129	128	158	37	W6KC	217	156	
38	K2IXQ	339	334	1794	82	WD6Y	124	124	274	38	W6FL	161	153	
39	K6JW	338	332	1151	83	AB6A	109	109	287	39	NE6V	256	149	
40	N7NR	354	331	1288	84	K6BBC	103	103	216	40	K7MY	213	142	
41	W6SW	339	331	540	85	N6YQ	100	100		41	K6IRD	220	130	
42	W6DR	336	331	1812	86	WA6MEM	100	100		42	W6SW	154	126	M/P
43	N6MXU	336	331	1416	87	W6CCC	95	95	211	43	W6IRD	102	112	
44	K6SY	336	330	1070	88	K6YIC	43	43	92	44	WD6Y	153	99	
										45	K6VC	145	96	
										46	K9TAD	94	81	
										47	K6FOD	33	27	
										48	N6HC	17	13	

2023 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1TU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

This was another super month! SCDXC picked up 8 entities including 4W, VU4 and T30! Our leader moved up 8 entities and almost remained in the same place on the ClubLog Leader Board. Larry, K6RO, has been kicking the tires and lighting the fires. He is one back from Bill, N6RV only because he went to Japan for a week. That said, Kent, N6WT, our perennial Southern California leader has been out and about as well. Our usual member-at-large leader, Peter, N0FW, well ... he has been sailing around in the South Atlantic for a month or so. If you missed the Bouvet presentation it is on line and very interesting, actually high risk life and death situations.

The ClubLog leaders are 19 away from their 2022 entity count. Combined we are 18 behind the 2022 totals. That is not too bad. There are several DXpeditions still going out later this year!

22 members have worked DXCC and 7 have stepped over the 200 mark. 233 ClubLog leaders have exceeded that mark. It has been a glorious season! All this was accomplished in one third of the year!

2023 Get Schroeder Leaders								
2023 Total Entities Worked				267				
2022 Total Entities Worked				286				
2023 Entities Worked by SCDXC				251				
2022 SCDXC Entities Worked				262				
2023 Entities Worked by SCDXC Members in SoCal				250				
2022 Entities Worked by SCDXC Members in SoCal				262				
2023 ClubLog Leaders Entities Worked				266				
2022 ClubLog Leaders Entities Worked				285				
2023 SCDXC Leader (N6RV)				239				
2022 ClubLog Leader (N0FW)				256				
Rank	Call	Entities	Last Mo.	Last Yr	Leader	-Tot	-Q	Uniques
1	N6RV	239	8	-4	0	-53	1	0
2	K6RO	238	11	53	-1	-52	1	0
3	N6WS	233	10	-19	-6	-47	2	0
4	N6WT	225	0	-34	-14	-39	0	0
5	W6TK	224	15	-27	-15	-38	0	0
6	W6OU	202	11	-21	-37	-16	0	0
7	K6ND	200	30	-60	-39	-14	0	0
8	N0FW	198	103	-64	-41	-12	0	0
9	W8GJK	190	13	-21	-49	-4	0	0
10	W6DR	188	35	-30	-51	-2	0	0
11	N6QC	186	33	-42	-53	0	0	0
12	NS6C	184	19	-23	-55	2	1	0
13	N6PM	162	12	-51	-77	24	0	0
14	K0XP	159	13	35	-80	27	1	0
15	WA5VGI	154	10	-68	-85	32	0	0
16	W6ZL	147	15	-9	-92	39	0	0
17	K6AFW	138	11	-22	-101	48	0	0
18	N6DHZ	135	13	-49	-104	51	0	0
19	SM5GMZ	115	34	-84	-124	71	1	0
20	W6YLZ	111	23	-43	-128	75	0	0
21	N6GP	110	0	-36	-129	76	0	0
22	WB6DJI	101	8	-56	-138	85	0	0

ClubLog Worked Not SCDXC

5N	FP	S9	YA
8R	J2	TJ	YI
A2	KH9	TU	YK
FJ	S2	VU4	ZL7

SCDXC Worked Not ClubLog

SCDXC Get Schroeder Standings 2023																
Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	YRS	
1	N6RV	0	29	9	114	116	151	94	153	107	158	36	239	967	55	
2	K6RO	3	33	36	134	123	183	181	199	193	187	31	238	1303	35	
3	N6WS	1	34	17	84	56	113	99	121	140	130	32	233	827	59	
4	N6WT	4	13	3	39	49	89	55	52	58	64	9	225	435	9	
5	W6TK	2	28	21	109	103	163	157	174	155	164	0	224	1076	66	
6	W6OU	0	4	0	13	33	62	42	62	21	37	1	202	275	60	
7	K6ND	27	10	17	44	47	58	53	54	61	60	3	200	434	32	
8	N0FW	6	29	11	43	42	65	86	104	106	142	5	198	639	27	
9	W8GJK	0	18	5	53	50	146	117	145	130	120	13	190	797	16	
10	W6DR	12	9	53	47	64	58	58	65	104	81	17	188	568	53	
11	N6QC	0	0	0	25	81	97	84	105	100	91	20	186	603	66	
12	NS6C	0	2	0	9	28	42	37	31	66	66	19	184	300	66	
13	N6PM	1	12	6	43	41	30	25	33	72	84	6	162	353	29	
14	K0XP	26	3	0	52	6	20	11	44	11	131	0	159	304	16	
15	WA5VGI	9	12	61	19	68	36	63	63	26	26	13	154	396	39	
16	W6ZL	0	0	0	23	6	49	10	85	20	114	5	147	312	31	
17	K6AFW	0	0	0	76	23	20	24	109	72	86	1	138	411	31	
18	N6DHZ	0	7	0	13	5	38	18	64	28	94	0	135	267	35	
19	W6YLZ	0	5	8	3	31	24	24	19	34	16	18	111	182	35	
20	N6GP	0	3	0	18	3	25	3	13	50	70	4	110	189	35	
21	K6KM	0	3	0	10	0	17	0	92	0	37	0	105	159	44	
22	WB6DJI	0	0	0	42	3	76	11	18	0	30	12	101	192	30	
23	K7MY	0	1	0	9	5	21	6	51	20	73	0	96	186	46	
24	NK6A	0	0	0	5	1	24	1	82	0	51	0	95	164	78	
25	K6FG	5	15	1	4	49	15	29	4	40	39	6	93	207	67	
26	N6MG	5	12	0	8	28	22	24	39	56	38	0	86	232	45	
27	N6EV	2	2	11	11	15	22	10	14	10	22	0	80	119	27	
28	W6SR	0	0	0	4	0	36	0	44	2	29	3	76	118	56	
29	WC2S	0	0	0	0	4	7	13	7	24	40	10	74	105	6	
30	KR6C	1	0	0	2	0	7	0	14	2	65	0	72	91	45	
31	W8DX	0	0	0	2	6	31	5	10	5	25	1	60	85	66	
32	N6PEQ	0	0	0	2	2	8	4	16	4	17	0	42	53	37	
33	K6FOD	0	0	0	0	3	3	0	27	5	3	0	36	41	5	
34	NZ6L	0	0	0	6	9	1	2	0	3	0	0	18	21	19	
35	K6JW	0	3	0	0	1	6	2	4	1	3	0	17	20	64	
36	K9TAD	0	0	0	4	0	3	0	5	0	7	1	15	20	16	
37	W6SW	0	0	0	0	1	0	0	0	0	1	0	2	2	44	
38	W6KK	0	0	0	0	0	0	0	0	1	1	0	2	2	28	
39	W6FL	0	0	0	0	0	0	0	0	0	0	1	1	1	63	

What Did We Really Work?

The entity count for April is significantly smaller than the previous months. One reason is as we work new ones for the year we do not usually work them a second time unless there is a contest of a band-mode slot we need to fill. In any event 163 is a good number. Thank you Dick, W6TK for working the WPX SSB contest. He worked 140 entities where the next highest number was 96. Dick also loves to chase DX. So, if he hasn't worked an entity on any given band-mode this year he will pursue it. Actually all of the leaders like to fill as many slots as possible during the year. So far this project demonstrates that on any given month you can work DXCC! Again, the total entities for the year does not match the Get Schroeder Contest totals. The variance arises from other members who do not submit their monthly totals. They have worked some entities not reported here.

Total						Total						Total						Total																
Entity	Prefix	247	185	221	187	163	Entity	Prefix	247	185	221	187	163	Entity	Prefix	247	185	221	187	163	Entity	Prefix	247	185	221	187	163	Entity	Prefix	247	185	221	187	163
Monaco	3A	1			1		Liberia	EL	1	1	1			Netherlands	PA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Agalega and St. Brandon	3B6	1			1		Iran	EP	1		1		1	Curacao	PJ2	1	1	1	1	1														
Mauritius Island	3B8	1		1	1		Moldova	ER	1	1	1	1	1	Bonaire	PJ4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rodriguez Island	3B9	1	1	1			Estonia	ES	1	1	1	1	1	Saba & Saint Eustatius	PJ5	1																		
Equatorial Guinea	3C	1	1	1		1	Ethiopia	ET	1	1	1			Sint Maarten	PJ7	1														1	1			
Fiji	3D2	1	1	1	1	1	Belarus	EW	1	1	1	1	1	Brazil	PY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Kingdom of Eswatini	3DA	1		1		1	Kyrgyzstan	EX	1	1	1	1	1	Fernando De Naronha	PY0F	1														1				
Tunisia	3V	1			1		Tajikistan	EY	1		1	1	1	Suriname	PZ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Viet Nam	3W	1	1	1	1	1	France	F	1	1	1	1	1	Western Sahara	S0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Guinea	3X	1		1	1	1	Guadeloupe Island	FG	1	1	1	1		Slovenia	S5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bouvet Island	3Y-B	1					Mayotte	FH	1		1			Seychelles Islands	S7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Azerbaijan	4J	1	1	1	1	1	New Caledonia	FK	1	1	1	1	1	Sweden	SM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Georgia	4L	1	1	1	1	1	Martinique	FM	1	1	1			Poland	SP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Montenegro	4O	1	1	1	1	1	French Polynesia	FO-F	1	1	1		1	Sudan	ST	1														1	1	1	1	
Sri Lanka	4S	1	1	1	1	1	Marquesas Islands	FO-M	1			1	1	Egypt	SU	1														1	1	1	1	
United Nations HQ	4U1U	1		1			Reunion Island	FR	1	1	1	1	1	Greece	SV	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Timor - Leste	4W	1		1	1	1	Saint Martin	FS	1	1	1	1	1	Dodecanese	SV5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Israel	4X	1	1	1	1	1	Crozet Island	FT8W	1	1	1			Crete	SV9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Libya	5A	1		1	1	1	Wallis & Futuna Islands	FW	1	1	1	1		Western Kiribati	T30	1																	1	
Cyprus	5B	1	1	1	1	1	French Guiana	FY	1	1	1	1	1	San Marino	T7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Tanzania	5H	1		1	1	1	England	G	1	1	1	1	1	Palau	T8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Madagascar	5R	1		1	1	1	Isle Of Man	GD	1	1	1	1	1	Turkey	TA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Togo	5V	1		1			Northern Ireland	GI	1	1	1	1	1	Iceland	TF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Samoa	5W	1	1	1	1	1	Jersey	GJ	1	1		1	1	Guatemala	TG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Uganda	5X	1	1	1	1	1	Scotland	GM	1		1	1	1	Costa Rica	TI	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Kenya	5Z	1	1	1	1	1	Guernsey	GU	1	1	1	1	1	Corsica	TK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Senegal	6W	1	1	1			Wales	GW	1	1	1	1	1	Republic of the Congo	TN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Jamaica	6Y	1	1	1			Solomon Islands	H4	1			1	1	Gabon	TR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Lesotho	7P	1		1			Hungary	HA	1	1	1	1	1	Chad	TT	1																		
Malawi	7Q	1	1	1	1	1	Switzerland	HB	1	1	1	1	1	Mali	TZ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Algeria	7X	1	1	1	1		Liechtenstein	HB0	1		1	1		European Russia	UA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Barbados	8P	1	1	1	1	1	Ecuador	HC	1	1	1	1	1	Asiatic Russia	U0A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Maldives	8Q	1	1	1	1	1	Galapagos Islands	HC8	1			1	1	Kaliningrad	U2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Croatia	9A	1	1	1	1	1	Haiti	HH	1	1	1	1	1	Uzbekistan	UJ	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ghana	9G	1		1		1	Dominican Republic	HI	1	1	1	1	1	Kazakhstan	UN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Malta	9H	1	1	1	1	1	Colombia	HK	1	1	1	1	1	Ukraine	UT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Zaire	9J	1	1	1			San Andres Island	HK0-S	1		1	1		Antigua & Barbuda	V2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Kuwait	9K	1	1	1	1	1	Republic of Korea	HL	1		1	1	1	Belize	V3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
West Malaysia	9M2	1	1	1	1		Panama	HP	1	1	1	1	1	Saint Kitts & Nevis	V4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
East Malaysia	9M6	1	1	1	1	1	Honduras	HR	1	1	1			Namibia	V5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nepal	9N	1	1	1	1	1	Thailand	HS	1	1	1	1	1	Micronesia	V6	1																	1	
Zaire	9Q	1		1	1	1	Vatican	HV	1		1			Marshall Islands	V7	1														1				
Burundi	9U	1		1	1	1	Saudi Arabia	HZ	1	1	1	1	1	Brunei	V8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Singapore	9V	1	1	1	1	1	Italy	I	1	1	1	1	1	Canada	VE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rwanda	9X	1		1	1	1	Sardinia	IS0	1	1	1	1	1	Australia	VK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Trinidad & Tobago	9Y	1	1	1	1	1	Grenada	J3	1	1	1			Cocos (Keeling) Islands	VK9C	1																		
Oman	A4	1	1	1	1	1	Guinea-Bissau	J5	1		1			Norfolk Island	VK9-N	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
United Arab Emirates	A6	1	1	1	1	1	Saint Lucia	J6	1	1	1	1	1	Willis Island	VK9-W	1																		
Qatar	A7	1	1	1	1	1	Dominica	J7	1	1	1			Anguilla	VP2-E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bahrain	A9	1	1	1	1	1	Saint Vincent	J8	1	1	1	1	1	Montserrat	VP2-M	1																		
Pakistan	AP	1	1	1	1	1	Japan	JA	1	1	1	1	1	British Virgin Islands	VP2-V	1																		
Taiwan	BV	1	1	1	1	1	Ogasawara	JD-O	1	1	1	1		Turks & Caicos Islands	VP5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
China	BY	1	1	1	1	1	Minami Torishima	JD1-M	1			1	1	Pitcarin Island	VP6	1																		
Nauru	C2	1		1			Mongolia	JT	1	1	1	1	1	Falkland Islands	VP8-F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Andorra	C3	1	1	1	1	1	Svalbard	JW	1			1	1	Bermuda	VP9	1																		
The Gambia	C5	1	1	1	1	1	Jordan	JY	1	1	1	1		Singapore	VR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Bahamas	C6	1	1	1	1	1	United States	K	1	1	1	1	1	India	VU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Chile	CE	1	1	1	1	1	Gauntanamo Bay	KG4	1	1	1	1	1	Lakshadweep Islands	VU7	1																		
Easter Island	CE0Y	1	1	1	1	1	Mariana Islands	KH0	1		1			Mexico	XE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Antarctica	CE9	1	1	1	1	1	Guam	KH2	1	1	1	1		Cambodia	XU	1																		

Who's on 6?

Not much change since last month. E season will start soon and this page will be hopping! There were 10 openings since the last newsletter. All were TEP and no new countries!

	Pfx	Total	QSOs	N6CA	N6RV	N6WS	K6RO	N6QQ	NS6C	W6YLZ	W6DR	WA5VGI	W8GJK	N6WT	WC2S	WB6DJI	W6ZL	N6PM	N6GP	K6ND	W6OU	N0FW	K6AFW	W8DX	W6FL
		43	239	36	36	32	30	20	18	17	13	13	13	9	9	8	5	5	4	2	1	1	1	1	1
93D2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
438P	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
599Y	1	5	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
77CE	1	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
83CO	1	6	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
88CX	1	10	1	1	1	1	1	1	1	1	0	0	0	1	0	1	0	1	1	0	0	0	0	0	
91D2	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
98E5/N	1	9	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	
118FG	1	3	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
121FK	1	6	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	
151HC	1	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	
152HC8	1	5	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
153HH	1	5	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
154HI	1	3	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
155HK	1	6	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160HR	1	6	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
167J3	1	2	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
169J6	1	2	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
170J7	1	3	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
172JA	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
179K	1	11	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	
187KH6	1	4	1	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
195KP4	1	5	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
198LU	1	14	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	
202OA	1	5	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
215P4	1	2	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
218PJ2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
219PJ4	1	10	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	
222PY	1	8	1	1	1	1	1	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	
226PZ	1	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
251TG	1	9	1	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	
252TI	1	9	1	1	1	1	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	
270V3	1	4	1	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
276VE	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
277VK	1	4	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
292VP8	1	5	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
303XE	1	6	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
318YS	1	7	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
320YV	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
329ZD7	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
332ZF	1	8	1	1	1	1	1	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	
334ZL	1	12	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	0	0	1	0	0	0	
338ZP	1	4	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	

AA7JV/FO



AA7JV/FO



2023 IDXC Visalia

The convention was a blast! Sadly, only 40 club members attended. You missed a good one! Everyone was happy to see each other in person after the 3 year hiatus. Consider going in 2024!



Bob, N6TV, took a lot of photos again. He always puts up a great webpage. Here is the link:

[N6TV Photo Bob](#)



WE WILL SEE EVERYONE NEXT YEAR!

Deleted ARRL DXCC Entities

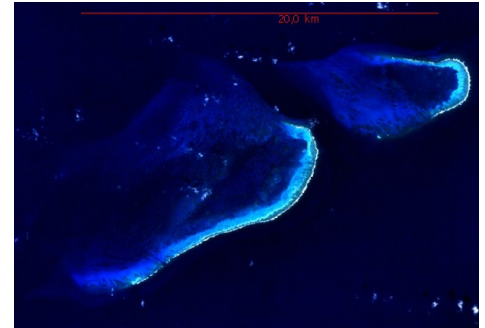
This month we look at Bajo Nuevo and Serrana Bank. These entities are number 26 and 27 out of 60 on the ARRL DXCC deleted list. It is amazing that we covered 25 so far!

Prefix	Entity	Cont	Zone	UTC	Location	Prefix
			ITU	CQ	+/- Lat Long	
FQ8	Fr Equatorial Africa	AF	47, 52	36	1 5N 18E	
HK0	Bajo Nuevo	NA	11	8	-5 16N 79W	
HK0	Serrana Bnk, Roncador Cay	NA	11	7	-5 14N 80W	KP3, KS4
I1	Trieste	EU	28	15	1 46N 14E	
I5	Ital Somaliland	AF	48	37	3 2N 46E	
JD1	Okino Tori-shima	AS	45	27	10 30N 140E	7J1
JZ0	Neth New Guinea	OC	51	28	10 10S 147E	
KR6	Okinawa (Ryukyu)	AS	45	25	8 26N 128E	KR8, JR6, KA6

Bajo Nuevo

Bajo Nuevo is a small, uninhabited reef with some small grass-covered islets, located in the western Caribbean Sea. The closest land is Serranilla Bank, not to be mistaken for Serrana Bank, located 68 miles to the west. The two land masses are part of the San Andres Archipelago. Bajo Nuevo is an oval shaped coral bank with two reefs and small keys and the end of each one. The largest key is 300 X 50 yards.

The reef was discovered in the 1600s and is claimed by at least four countries, USA, Columbia, Nicaragua, and Honduras. The International Court of Justice upheld the Columbian claim to the two. The US claims the territories under the Guano Islands Act of 1856.



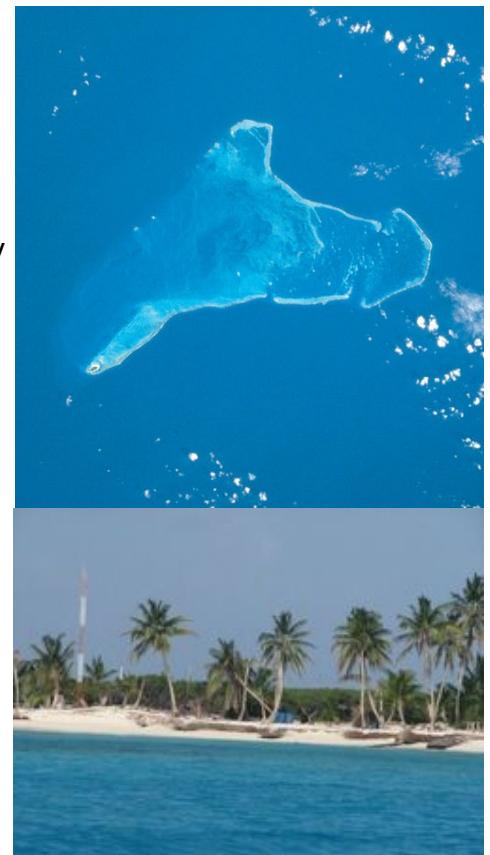
Serrana Bank

Serrana Bank, named after Pedro Serrano, a Spanish castaway, is a mostly underwater atoll in the western Caribbean Sea. There are six islets (cays) that are above water. Southwest Cay (547 X 328 yards) South Cay (164 X 27 yards), Little Cay (107 yards in diameter), East Cay (87 X 43 yards), Narrow Cay, and North Cay. It too was claimed by several countries including the USA under the Guano Act. The International Court of Justice ruled it is the territory of Columbia.

There are several ruins of a former military base on Southwest Cay. These were used by the US Mariners during the Cuba Conflict. The islet is covered with sparse vegetation, bushes and some trees. There is a lighthouse, operated and administered by Columbia. The South West Cay light is an 82 ft high tower, constructed from a combination of a concrete dwelling and a white iron framework tower with a light on its top.

DXCC Status

Both lost DXCC status in September 1981 when the USA gave up claim and the islands reverted back to Columbia.



Amateur Radio OperationsBajo Nuevo

HK0AA	1960	Danny Weil
HK0AB	1962	
W9WNV/HK0	1966	Don Miller
HK0AA	1971	
HK0AA	1976	
HK0AB	1980	

Bajo Nuevo

The earliest activation on Bajo Nuevo was in 1959. Danny Weil of YASME fame sailed there and made history. The next group was HK0AB in 1962. The crew is shown in the photo to the right. This group went on to activate Serrana Bank.

Back: HK3SO Fernando Gargrecht, W8FGX Jake Schott, W4CKB Bev Cavender, HK3LX Edmundo Quinones, HK0AI Victor Abrahams, HK5EV Carlos Valencia, W6HAW Boots Olsen, Enrique Valencia (son of HK5EV).

Front: W4QVJ Ed Cushing, George Allendorf, W4DQS Dale Strieter, HK1QQ Herman Olarte.

This was followed by Don Miller, W9WNV, in 1966. In 1976 Bob Ferraro, K6AHV (W6RJ) (SK) Francisco Velez, HK0BKX and Erik Sjolund (SK), SM0AGD made the trek making 1250 QSOs as HK0AA with just an 18AVT vertical and 160 meter dipole. Erik also operated there as HK0AB in 1974. They also activated Serrana Bank a few days earlier.

Most notably was the all Columbian HK0AB DXpedition. 16 operators took over the small key. HK1QQ, HK3BED, HK3BQM, HK3DAP, HK3DEU, HK3DMD, HK3TF, HK4DKR, HK4DUM, HK5ASF, HK5LA, HK5RL, HK5SK, HK6AQT, HK7BE, and HK0BQX. This expedition is the last on record.

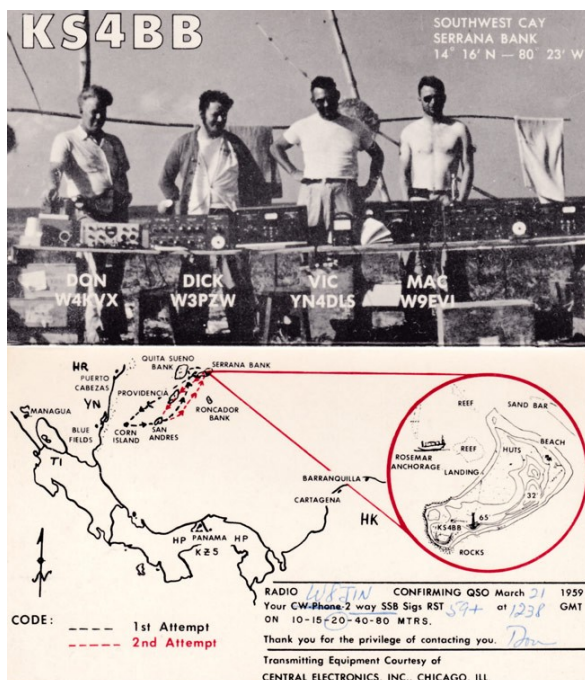
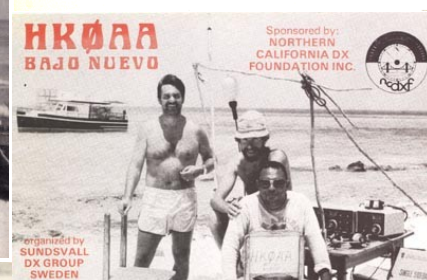
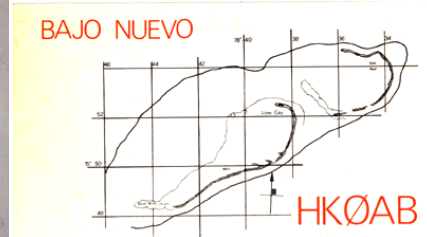
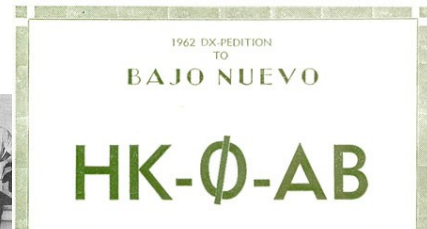
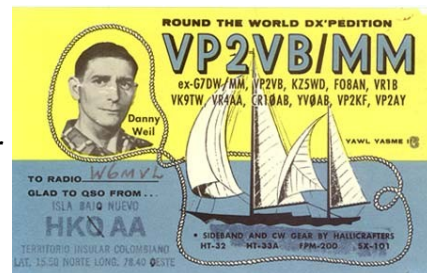
Serrana Bank

The earliest DXpedition was KS4BB back in the tube days! They set up at the base of the lighthouse on Southwest Cay at 32 feet ASL. Their first attempt landed them near Nicaragua and on the second try they did activate the Cay and made 6,00 QSOs in 80 countries.

The last activation was in 1980 by the same all Columbian DXpedition that closed out Bajo Nuevo

Serrana Bank

KS4BB	1959	
KS4BF	1962	
W9WNV/HK0	1965	Don Miller
W9FIU/KS4	1970	
KS4DX	1971	
KS4KZ	1972	
HK0AA	1975	
HK0AA	1976	
HK0AA	1980	



Free Tower (W6HB)

The family of W6LFE (SK) is offering the following to anyone who can come to safely remove it.

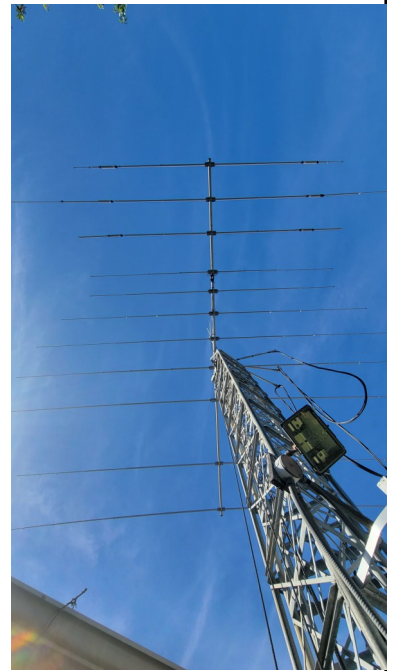
Tri-Ex HZN-354 55 ft. Motorized tower

HyGain TH-11DX Yagi

Yaesu G-1000DXA Rotator and controller

The items are installed at the QTH of W6LFE in West Hills. There is no hurry. The house will not go on the market until the spring. Stephan Shobe, W6SKS, (SoCal Tower guy) has inspected the items.

You are welcome to contact family member Lee Aurich at 510-332-6350 or lee@aurich.com at your convenience.



Wanted: Alpha 87A in Very Good Condition (K6AFW)

Art is looking for an Alpha 87A in very good condition. He has several amps including a few of the new solid state ones which he says "Transistors are 3 legged fuses. His ideal amp is the 87A and this would fulfill his bucket list! Contact him through his email address on QRZ.com

**ZL1RS
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Station**



Collins Radio in the Day



Resource Page

Useful Sites

N0HR DXpedition Map
www.n0hr.com/wk34/

The DX Zone
www.dxzone.com/catalog/DX_Resources/

The Daily DX
www.dailydx.com/

Announced DX Ops
www.ng3k.com/misc/adxo.html

DXing.info
www.dxing.info/dxpeditions/

DX 425 News
www.425dxn.org/dxped/

DX Italia DX News
www.marioi2mqp.it

DH9SB Weekly DX Calendar
<http://www.dx-info.de>

Southern California Contest Club
<http://www.socalcontestclub.org/>

Sixth District QSL Bureau
www.QSLBureau.org

ARRL VE Exam Sessions

To find an ARRL exam sessions in your area go to the website:

<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

Club and Conduct Sites

Officer Guidelines

http://www.scdxc.org/download/Officer_Guidelines.pdf

DX Code of Conduct

<http://www.dx-code.org/>

Propagation

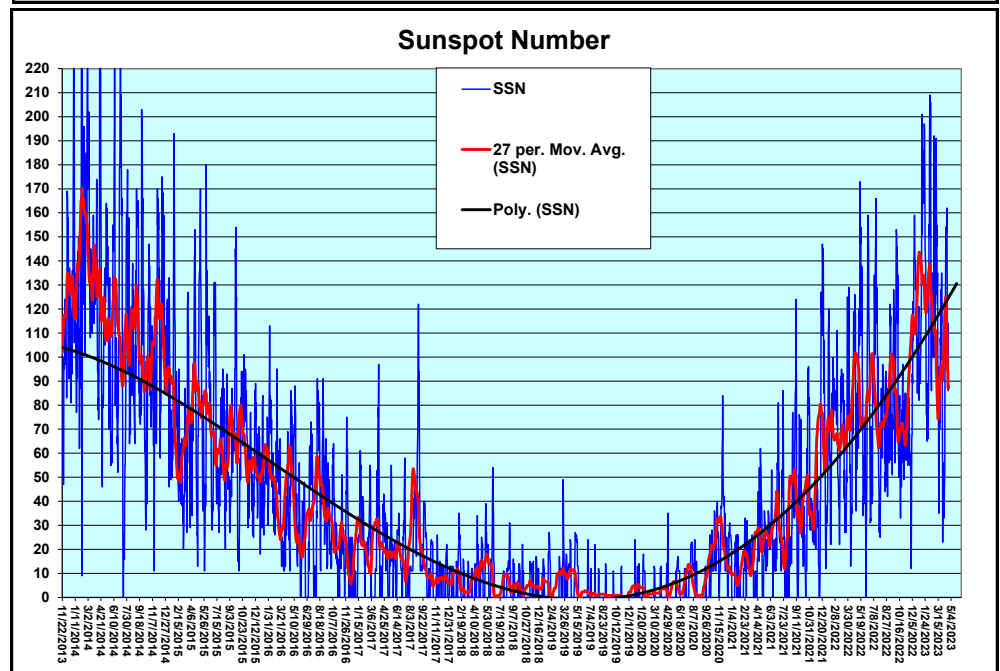
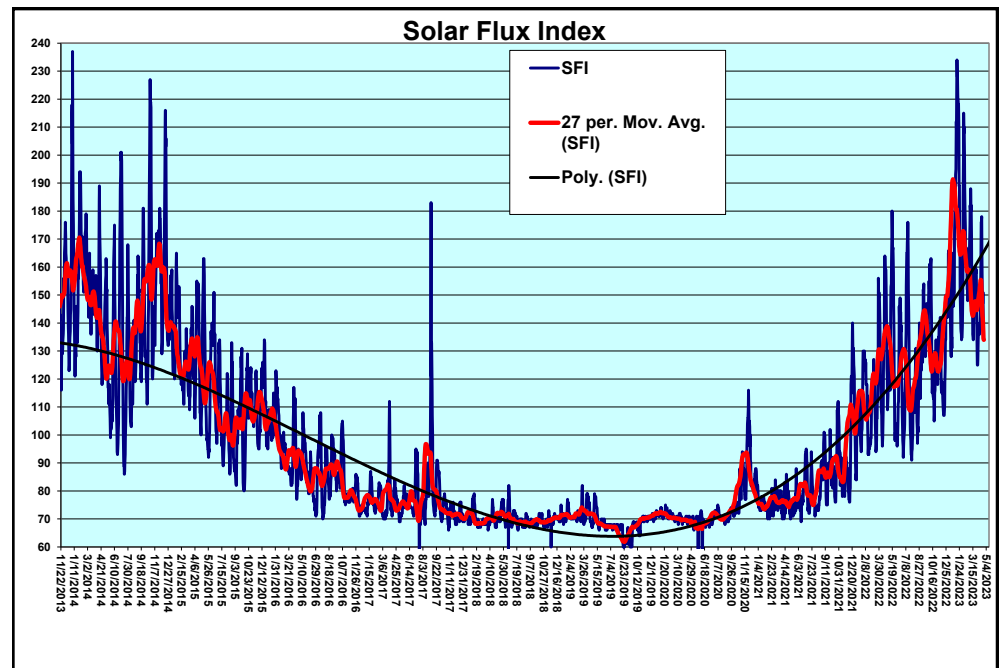
A G4 storm erupted a few days ago. Today the A index exceeded 76! This should quiet down soon. The SFI and SSN have stalled. Hopefully there will be an upturn.

Strongest Cycle Ever? Biggest Cycle?

Understanding Indices - K9LA

What to Expect During the Rising Years of Solar Cycle 25 - YouTube

The Termination Event | Space-weather.com





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